

TRAPPC2L (C-5): sc-377322

BACKGROUND

TRAPPC2L (trafficking protein particle complex subunit 2-like protein), also known as HSPC126, is a 140 amino acid protein belonging to the TRAPP small subunits family and Sedlin subfamily. Localizing to cytoplasm, endoplasmic reticulum and Golgi apparatus, TRAPPC2L is expressed in testis, liver, bladder, lung, spleen and brain. TRAPPC2L may have a role in vesicular transportation from endoplasmic reticulum to Golgi apparatus, and is a member of the multisubunit transport protein particle (TRAPP) complex. Interacting with TRAPPC2, TRAPPC3, TRAPPC4 and TRAPPC6A, the TRAPPC2L and TRAPPC2 genes are often found in pairs and show overlapping expression. TRAPPC2L exists as two alternatively spliced isoforms, and is encoded by a gene that maps to human chromosome 16q24.3. Chromosome 16 encodes over 900 genes in approximately 90 million base pairs, makes up nearly 3% of human cellular DNA and is associated with a variety of genetic disorders, including Rubinstein-Taybi syndrome and Crohn's disease.

REFERENCES

- Zhang, Q.H., et al. 2000. Cloning and functional analysis of cDNAs with open reading frames for 300 previously undefined genes expressed in CD34⁺ hematopoietic stem/progenitor cells. *Genome Res.* 10: 1546-1560.
- Martin, J., et al. 2004. The sequence and analysis of duplication-rich human chromosome 16. *Nature* 432: 988-994.
- Turnbull, A.P., et al. 2005. Structure of palmitoylated BET3: insights into TRAPP complex assembly and membrane localization. *EMBO J.* 24: 875-884.
- Gervasini, C., et al. 2007. High frequency of mosaic CREBBP deletions in Rubinstein-Taybi syndrome patients and mapping of somatic and germ-line breakpoints. *Genomics* 90: 567-573.
- Sacher, M., et al. 2008. The TRAPP complex: insights into its architecture and function. *Traffic* 9: 2032-2042.

CHROMOSOMAL LOCATION

Genetic locus: TRAPPC2L (human) mapping to 16q24.3; Trappc2l (mouse) mapping to 8 E1.

SOURCE

TRAPPC2L (C-5) is a mouse monoclonal antibody raised against amino acids 21-114 mapping within an internal region of TRAPPC2L of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

TRAPPC2L (C-5) is available conjugated to agarose (sc-377322 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-377322 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-377322 PE), fluorescein (sc-377322 FITC), Alexa Fluor® 488 (sc-377322 AF488), Alexa Fluor® 546 (sc-377322 AF546), Alexa Fluor® 594 (sc-377322 AF594) or Alexa Fluor® 647 (sc-377322 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-377322 AF680) or Alexa Fluor® 790 (sc-377322 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

TRAPPC2L (C-5) is recommended for detection of TRAPPC2L of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

TRAPPC2L (C-5) is also recommended for detection of TRAPPC2L in additional species, including canine and bovine.

Suitable for use as control antibody for TRAPPC2L siRNA (h): sc-93364, TRAPPC2L siRNA (m): sc-154586, TRAPPC2L shRNA Plasmid (h): sc-93364-SH, TRAPPC2L shRNA Plasmid (m): sc-154586-SH, TRAPPC2L shRNA (h) Lentiviral Particles: sc-93364-V and TRAPPC2L shRNA (m) Lentiviral Particles: sc-154586-V.

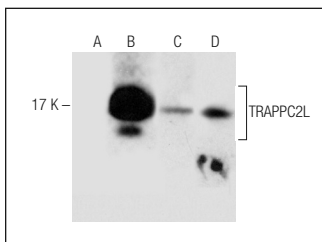
Molecular Weight of TRAPPC2L: 16 kDa.

Positive Controls: A549 cell lysate: sc-2413, TRAPPC2L (h): 293T Lysate: sc-111115 or T24 cell lysate: sc-2292.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



TRAPPC2L (C-5): sc-377322. Western blot analysis of TRAPPC2L expression in non-transfected 293T: sc-117752 (A), human TRAPPC2L transfected 293T: sc-111115 (B), A549 (C) and T24 (D) whole cell lysates.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA